



M 7.1, OFFSHORE HONDURAS

Origin Time: Thu 2009-05-28 08:24:45 UTC Location: 16.73°N 86.21°W Depth: 10 km

PAGER Version 2

Created: 6 hrs, 33 mins after earthquake

Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k = x1000) | | * | * | 28,374k | 1,483k | 8k | 29k | 3k | 0 | 0 |
|---|--------------------------|----------|--------|---------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | l | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | none | none | none | V. Light | Light | Moderate | Moderate/Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | none | none | none | Light | Moderate | Moderate/Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area. population per ~1 sq. km from Landscan 2006 Selected City Exposure Population Exposure 100 1000 5000 10000 MMI City **Population** 500 -84° VII French Harbor -88° Cancun Merida San Pedro Sula 489k IV Valladolid Belmopan 13k San Miguel de Cozumel IV Tegucigalpa 850k Tekax de Alvaro Obregon 542k Cancun Campeche Felipe Carrillo Puerto IV San Salvador 525k George Town **Guatemala City** 994k **George Town** 29k Bacalar / Chetumal Merida 717k Managua 973k 18° San Pedro IV Mixco 473k V bold cities appear on map (k = x1000)IV Belmopan **f** Flores Shaking Intensity MMI Dangriga Sayaxche Savannah Bight Sandy Bay Roatan Poptun 16 uerto.Cortez 7 Tela Barra Patuca Choloma Coban George Town Paptalaya El Progreso Wampusirp Guatemala City Villa Nueva Tegucigalpa 14 zaragoza San Salvador I۷ Tegucigalpa Matagalpa 250 Managua

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 7.5 earthquake occurred near the Guatemala, region 358 km southwest of the location of this earthquake on February 4, 1976 (UTC), with estimated population exposures of 80,000 at intensity IX or greater and 1,017,000 at intensity VIII, resulting in an estimated 22,778 fatalities.

This information was automatically generated and has not been reviewed by a seismologist.